

AD-A163 778

DATA TRANSMISSION SYSTEMS(U) FOREIGN TECHNOLOGY DIV
WRIGHT-PATTERSON AFB OH 1986 FTD-ID(RS)T-0037-86

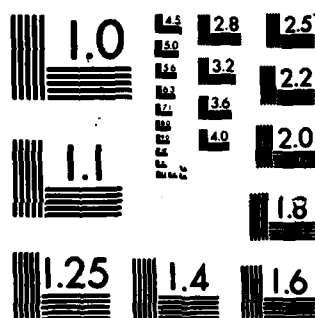
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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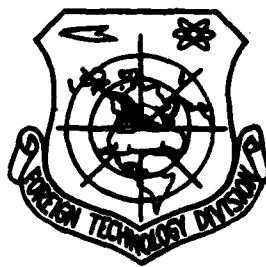
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FOREIGN TECHNOLOGY DIVISION

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DATA TRANSMISSION SYSTEMS



DTIC
ELECTE
FEB 07 1986
S E D

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86 2 7 027

U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

Block	Italic	Transliteration	Block	Italic	Transliteration
А а	<i>А а</i>	A, a	Р р	<i>Р р</i>	R, r
Б б	<i>Б б</i>	B, b	С с	<i>С с</i>	S, s
В в	<i>В в</i>	V, v	Т т	<i>Т т</i>	T, t
Г г	<i>Г г</i>	G, g	У у	<i>У у</i>	U, u
Д д	<i>Д д</i>	D, d	Ф ф	<i>Ф ф</i>	F, f
Е е	<i>Е е</i>	Ye, ye; E, e*	Х х	<i>Х х</i>	Kh, kh
Ж ж	<i>Ж ж</i>	Zh, zh	Ц ц	<i>Ц ц</i>	Ts, ts
З з	<i>З з</i>	Z, z	Ч ч	<i>Ч ч</i>	Ch, ch
И и	<i>И и</i>	I, i	Ш ш	<i>Ш ш</i>	Sh, sh
Й й	<i>Й й</i>	Y, y	Щ щ	<i>Щ щ</i>	Shch, shch
К к	<i>К к</i>	K, k	Ъ ъ	<i>Ъ ъ</i>	"
Л л	<i>Л л</i>	L, l	Ы ы	<i>Ы ы</i>	Y, y
М м	<i>М м</i>	M, m	Ь ь	<i>Ь ь</i>	'
Н н	<i>Н н</i>	N, n	Э э	<i>Э э</i>	E, e
О о	<i>О о</i>	O, o	Ю ю	<i>Ю ю</i>	Yu, yu
П п	<i>П п</i>	P, p	Я я	<i>Я я</i>	Ya, ya

*ye initially, after vowels, and after ъ, ь; e elsewhere.
When written as ё in Russian, transliterate as yě or ě.

RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	sinh ⁻¹
cos	cos	ch	cosh	arc ch	cosh ⁻¹
tg	tan	th	tanh	arc th	tanh ⁻¹
ctg	cot	cth	coth	arc cth	coth ⁻¹
sec	sec	sch	sech	arc sch	sech ⁻¹
cosec	csc	csch	csch	arc csch	csch ⁻¹

Russian English

rot curl
lg log

GRAPHICS DISCLAIMER

All figures, graphics, tables, equations, etc. merged into this translation were extracted from the best quality copy available.

DATA TRANSMISSION SYSTEMS

Speeds of Transmission and Types of
Redundant Codes for Transmission
with Narrow-Band Feedback Channel

GOST
17422-72

By the Decree of the State Committee of Standards of The USSR Council
of Ministers from 1/7/1972, No. 59, in effect since

1/1/1973

Violation of the Standard is Prosecutable by Law

1. This standard establishes the nominal speeds of data transmission through telegraph channels, voice-frequency channel, broad-band channel, short-wave radio channels, and, also, types of redundant codes for the data transmission systems through standard voice-frequency channels synchronously with a narrow-band feedback channel.

The standard takes into account the specifications from the recommendation made by CMEA on the standardization of PS 2344-70.

2. The standard does not apply to the speeds of data transmission at the input (output) of parallel signal converters.

3. Nominal speed of data transmission at the input (output) of signal converters towards data processing equipment must be selected:

a) for telegraph channels - from the series 50, 100, and 200 bits's. The speed of 75 bits/s is permitted;

b) for voice-frequency channels - from the series 200, 600, 1200, 2400, 3600, 4800, 7200, and 9600 bits/s. The speed of 75 bits/s is permitted when using a feedback channel;

c) for broad-band channels:

pregroup channels - from the series 6000, 12000, and 24000 bits/s;

primary group - from the series 24000, 48000, and 96000 bits/s.

The speed of 72000 bits/s is permitted;

d) for short-wave radio channels:

telegraph - from the series 50, 100, and 200 bits/s. Speeds of 75, 150, and 300 bits/s are permitted;

voice frequency - from the series 200, 600, 1200, 2400, and 4800 bits/s. The speed of 3600 bits/s is permitted.

4. For short-wave channels in interface with a wire network of data transmission systems using start-stop letter-printing equipment and operating by means of code MTK-2, it is permitted to select the transmission speeds from the series 48, 96, and 192 bits/s.

5. Redundant cyclic codes with the following parameters must be used in systems of synchronous data transmission with a resolution feedback through a narrow-band feedback channel with a protection against errors which is independent of the primary code for speeds of 600, 1200, 2400, 3600, and 4800 bits/s:

length of the unit - 140, 260, 500, or 980 binary elements;
forming polynomial - $x^{16} + x^{12} + x^5 + 1$.

The following structure of the unit is established:

four service elements,

120, 240, 480, or 960 information elements,

16 verification elements corresponding to the forming polynomial $x^{16} + x^{12} + x^5 + 1$.

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Justification	
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